

March 10, 2009

Dear Senator,

DATE SB.

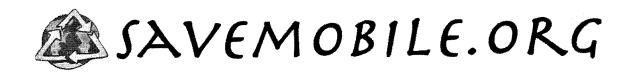
I ask for your support on SB 471. I am attempting to get this letter to you ahead of the hearing for your review. This bill would create a fuel criteria for state fleets to measure the carbon emitted by their fuel and reduce it by 10% in 10 years. It is entirely flexible, giving state government a wide array of choices on how to choose more efficient fuels. It helps rural economies and farmers, since the likely fuel chosen will be biodiesel. Farmers growing camelina and start-up operations like the biodiesel plant in Culbertson will benefit from selling their fuel to the state government. It provides an incentive for Montana petroleum as well, since Montana oil will rate as more efficient than imported oil.

At its core, SB 471 is about efficiency with taxpayer dollars. For a small one-time fee of \$12,000, the state will implement a fuel standard for millions of gallons of fuel and millions of dollars spent on the motor pool, so to choose fuels that get the most energy and least carbon for the taxpayer dollar. During the 2007 session, HB 3 was a supplemental appropriation for \$1.3 million because of the spike in the price of fuel. This bill will help to prevent similar spikes in the future by encouraging use of Montana fuels over foreign oil imports.

An opinion piece supporting SB 471 is attached, as well as additional material related to low carbon fuel accounting. Matt Elsaesser, our executive director, will be in contact with you should you have any questions about SB 471.

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Tyler Evilsizer S.A.V.E. Foundation Chairman



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Senate Bill 471 by Senator Brueggeman (R-Polson), paves the way for this tool by having state government reduce the carbon intensity of its fuel purchases. This bill, which creates a Low Carbon Fuel Standard for state purchases, is the best way to determine which alternative fuels have environmental merit. Not only will the state have a guideline for choosing Montana fuels, this bill also provides the foundation for a tool for citizens making choices at the pump. Once the system is in place, other laws could easily make that information available to citizens, so everybody going to the gas station would know if the fuel they bought came from Montana or the Middle East. Fueling your car is not simple. The true costs are often hidden. This bill exposes the indirect costs to our environment and our nation's security.

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Executive Director

S.A.V.E. Foundation

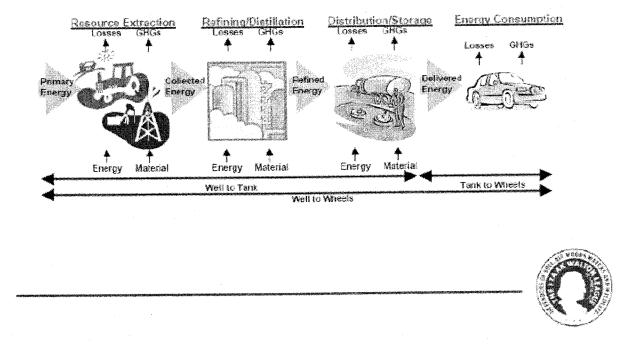
Cell: 406.431.0815

Ke: Senate Bill 471

Low Carbon Fuels

A Low Carbon Fuel Standard (LCFS) calls for policy that objectively measures the benefits of alternative fuels based on the net amount of carbon they emit per unit of energy they provide. This standard ensures better accounting of fuel and policy impacts, both environmentally and economically. It creates a policy infrastructure to promote our rural economies, energy independence, and reduced carbon intensity of transportation fuels. It measures carbon emissions not just by what comes out of our exhaust pipe, but also the carbon produced over the lifetime of the fuel. LCF Accounting considers all the energy inputs of a fuel: extraction or growing, refining, and transportation to the pump. This accounting system tracks the indirect costs that we pay for fuel.

Low Carbon Fuel Standard: Reduce the Life-cycle carbon intensity of fuels

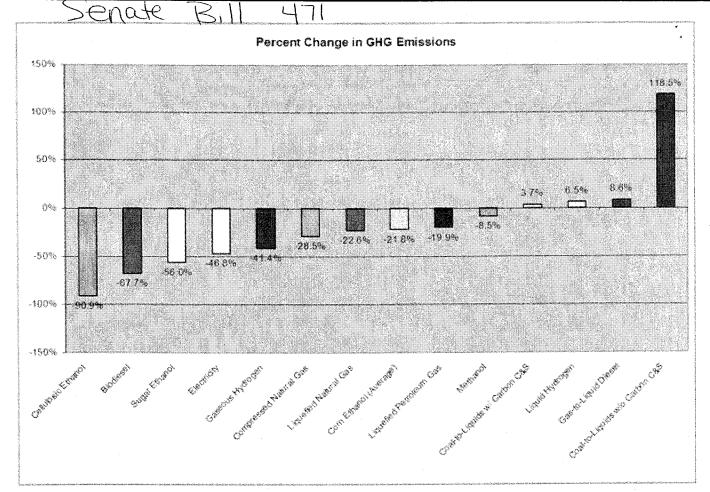


Source: The Future of Biofuels in Minnesota, by Bill Grant, Izaac Walton League. Presentation November 13, 2008.

Lifecycle Accounting

Lifecycle analyses must contend with the fact that inputs and assumptions generally represent industry-wide averages even though energy consumed and emissions generated can vary widely from one facility or process to another. Thus, greenhouse gas emissions can vary depending on each of these factors and the assumptions made about those factors. For example, renewable and alternative fuel production plants can utilize different processes and be powered with biomass, natural gas, coal or a mix of these fuels. Similarly, greenhouse gas emissions from alternative fuels like hydrogen depend on the fuel used to make the hydrogen. The combustion, or use of these fuels in vehicles, is another factor that influences lifecycle greenhouse gas emissions. For example, electric vehicles can have much higher fuel efficiency, improving the lifecycle greenhouse profile of electricity as a fuel.

THE STUDENT ADVOCATES FOR VALUING THE ENVIRONMENT (S.A.V.E) FOUNDATION MORE INFORMATION AT SAVEMOBILE. OR G/406.449.6008



Source: Greenhouse Gas Impacts of Expanded Renewable and Alternative Fuels Use. EPA Fuels and Additives Site. Retrieved February 4, 2009 from http://www.epa.gov/OMS/renewablefuels/420f07035.htm

The GREET Model

The EPA used the Greenhouse Gases, Regulated Emissions, and Energy Use in Transportation (GREET) model of lifecycle analysis to estimate the percent change in lifecycle greenhouse gas emissions, relative to the petroleum fuel that is displaced, of a range of alternative and renewable fuels and then compared them on an energy equivalent basis. Under this analysis, a typical existing starch-ethanol plant qualifies under the Energy Independence and Security Act (EISA) regulations; the EPA found that for every British thermal unit (Btu) of gasoline that is replaced by corn ethanol, the total lifecycle greenhouse gas emissions that would have been produced from that Btu of gasoline would be reduced by 21.8 percent. The percent change in greenhouse gases for corn ethanol can range from a 54 percent decrease for a biomass-fired dry-mill plant to a 4 percent increase for a coal-fired wet-mill plant. Sugar ethanol, which is considered an advanced biofuel in EISA, had a 56 percent reduction and cellulosic ethanol had a 90.9 percent reduction.

Economic Benefits of Biofuels for Montana

Biodiesel is renewable. It can be blended into existing petroleum diesel or used as a petroleum diesel substitute. According to the U.S. Department of Energy, biodiesel blends require no engine modifications—you can use them in existing diesel engines. Biodiesel is much less combustible than petroleum diesel, making it safer to handle. It reduces greenhouse gas emissions. It is approved for use as a registered fuel and fuel additive by the Environmental Protection Agency and has been designated as an alternative fuel by the Department of Energy and the U.S. Department of Transportation. Biodiesel has been tested in a variety of unmodified diesel vehicles for 40 million road miles, including 120,000 miles in Yellowstone National Park. Biodiesel can be produced from certain varieties of canola, safflower, mustard, camelina, and crambe, all which can be grown here in Montana. Growing the raw materials in Montana and refining and producing biodiesel in Montana may be a value-added proposition that has the potential to create jobs, revitalize rural Montana's economy, and promote alternative fuel development.

Senate Bill 471 LOW CARBON FUELS BY MATT ELSAESSER

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LCF Accounting is the best way to determine which alternative fuels have environmental merit. It measures carbon emissions not just by what comes out of our exhaust pipe, but also the carbon produced over the lifetime of the fuel. LCF Accounting considers all the energy inputs of a fuel: extraction or growing, refining, and transportation to the pump. This accounting system tracks the indirect costs that we pay for fuel. A gallon of petroleum gasoline produced in Montana provides the same amount of useful energy as a gallon of petroleum derived gas from the Middle East.

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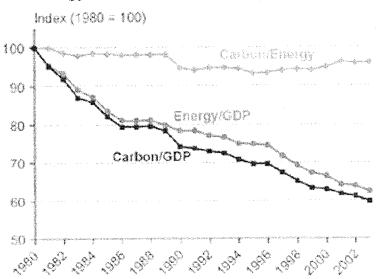
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The nation is looking for alternatives to gasoline. Recent reports regarding Hydrogen Fuel Cells have created much excitement. Liquid biofuels like ethanol and biodiesel have the potential to allow America to grow its own fuel, which in turn will reduce fuel costs, greenhouse gas emissions, and dependence on foreign nations for fuel. However, not all alternative fuels are created equal and many have unintended consequences. Corn-based ethanol requires energy from fossil fuels. In Asia, rainforests are destroyed to provide cropland for biodiesel made from palm oil, causing the loss of "carbon sinks" and biodiversity. Today, using electricity to produce hydrogen for fuel cells is less efficient than using the electricity directly in a standard electric car. LCF Accounting is a tool that can ascertain which alternative fuels being promoted are those with real environmental benefits.

LCF Accounting gives us a necessary baseline to understand the environmental impacts of our transportation fuel choices. It is a vital tool for citizens making choices at the pump and for policy makers looking to lower the carbon intensity of fuels. Fueling your car is not simple. The true costs are often hidden. Let's make it easier with Low Carbon Fuels Accounting.

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Intensity Ratios: Carbon/GDP, Carbon/Energy, and Energy/GDP



Our economy has grown relative to our energy use, yet we have not reduced the carbon intensity of the energy used.. (Source: EIA, 2004)





SAVEMOBILE.ORG Biodiesel Montana Tours

By the S.A.V.E. Foundation

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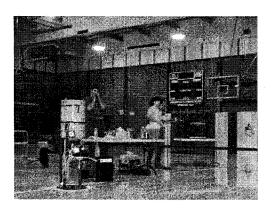
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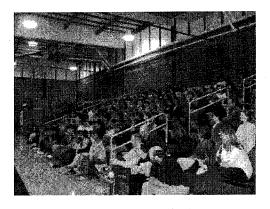


Biodiesel Montana educated farmers in Ingomar about the benefits of growing their own fuel.



Rancher Andy Brown explains the details of the fuel lines outside Little Big Horn College.





Country singer Jason Deshaw entertains grades 7-12 in Harlowton.

The S.A.V.E. Foundation, 501(c)(3) P.O. Box 1481 Helena, MT 59624 406.449.6008 • recycle@savemobile.org Ke: In Support of Senate Bill 411

SAVEMOBILE.ORG

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Dear Senator,

DATE 3-11-2009 SR 562+71

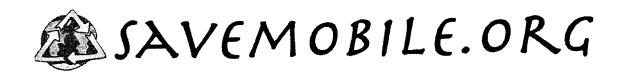
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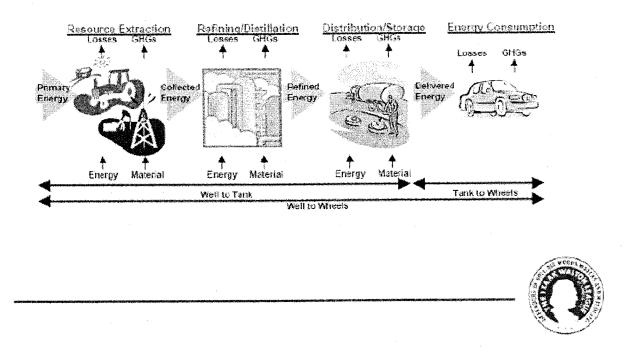
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S.A.V.E. Foundation Cell: 406.431.0815 SE: Senote BIII 471

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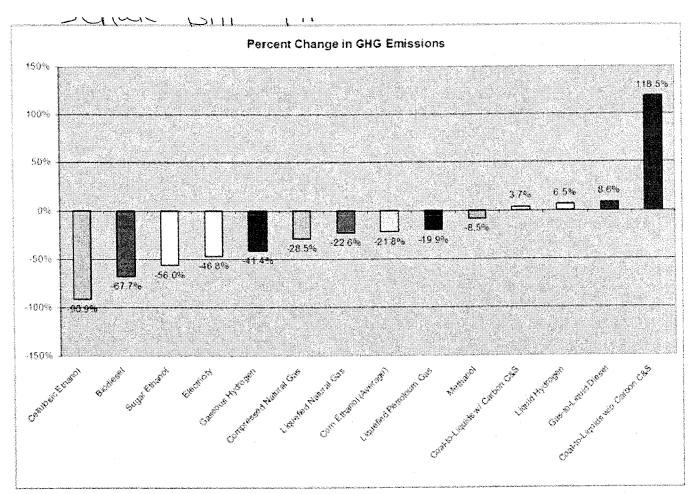
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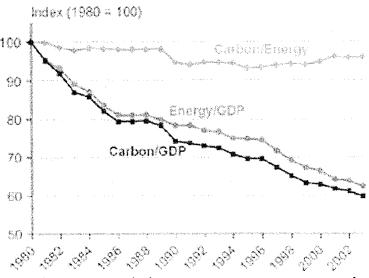
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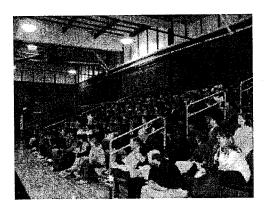


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